GP5810-08 XG(S)-PON Combo OLT Datasheet
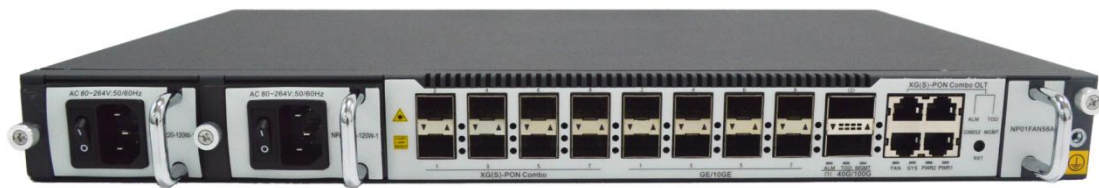
Porduct overview:

GP5800 is highly integrated, medium-capacity GPON OLT for operators, ISPs, enterprises and park applications.The product follows the ITU-T G.984/G.988 technical standard， The communication industry standard of the People's Republic of China "Access Network Technical Requirements - Gigabit Passive Optical Network (GPON)" and China Telecom's GPON equipment technical requirements CTC2.0 standard, can be compatible with G/XG/XGS three modes at the same time. Among them, the asymmetric system (2.5Gbps uplink, 10Gbps downlink) is called XGPON, and the symmetrical system (10Gbps uplink, 10Gbps downlink) is called XGSPON. The product has good openness, strong compatibility, high reliability, complete software functions, and cooperates with the optical network unit (ONU) to provide users with access to various integrated services such as broadband, voice, video, and monitoring. It can be widely used in the construction of access networks such as operator FTTH/C access, VPN, government and enterprise park access, campus network access, etc., to meet the rapidly growing business needs. XG(S)-PON OLT provides higher bandwidth, application scenarios, business configuration and operation and maintenance are fully synchronized and inherited from GPON.

GP5810 OLT is only 1U in height, easy to install and maintain, and saves space. The equipment adopts the industry's advanced technology to provide customers with
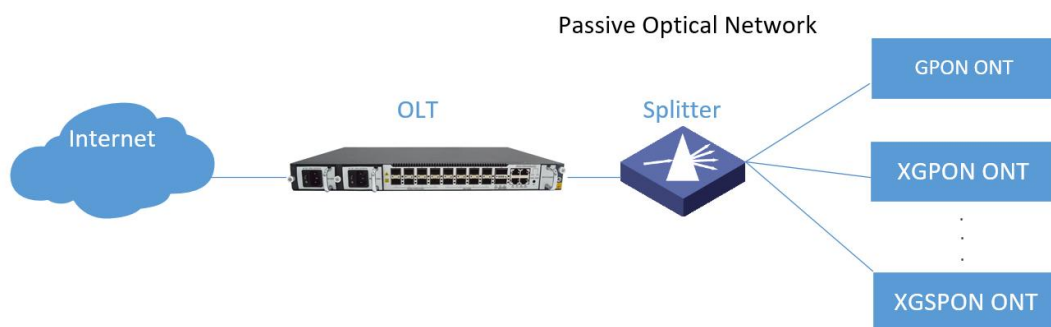
reliable solutions, with efficient bandwidth utilization and Ethernet service support capabilities, helping operators to provide users with reliable service quality. Supporting mixed networking of different types of ONUs can save a lot of costs for operators.

GP5810-08 XG(S)-PON Combo OLT

The XG-PON system usually consists of OLT at the office side, ONU and ODN at the user side, and adopts a point-to-multipoint network structure. ODN is composed of passive optical components such as single-mode optical fibers, optical splitters, and optical connectors, and provides optical transmission media for the physical connection between OLT and ONU.

Main Feature

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- PON port supports COMBO mode, and can support GPON/XGPON/XGSPON three modes at the same time

- Rich Layer 2/3 switching features and Flexible management methods

- Support multiple link redundancy protocols such as FlexLink/STP/RSTP/MSTP/ERPS/LACP

- Support RIP、OSPF、BGP、ISIS

- Safe DDOS and virus attack protection

- Support redundant backup of power supply, support pluggable power supply, support pluggable fan

Support power failure alalm

Product specifications

Attributes	XG(S)-PON Combo OLT
Exchange capacity	720Gbps
Packet forwarding rate	535.68Mpps
Memory and storage	memory：2GB，storage：8GB
Management port	1* Console
Fixed port	8*XG(S)-PON/GPON port, 8*10GE/GE SFP + 2*100G QSFP28

PON	Comply with ITU-T G.987/G.988 standard;
	Center wavelength: downlink 1577nm, uplink 1270nm;
	Line rate: XGPON downlink 9.95328Gbps, uplink 2.48832Gbps;
	XGSPON downlink 9.95328Gbps, uplink 9.95328Gbps;
	Maximum distance: 100KM logical distance, 40KM physical distance, maximum differential distance 40KM;
	1:256 maximum splitting ratio
	Standard OMCI management functions
	Flexible and compatible with any brand of ONT
	ONU batch software upgrade
VLAN	Support 4K VLAN
	Support Vlan based on port, MAC and protocol
	Support dual Tag VLAN, port-based static QinQ and fiexible QinQ
MAC	Support 128K MAC address entries
	Support static MAC address setting
	Support black hole MAC address filtering function
	Support port MAC address limit
Layer 2 Ring Network Protocol	Support STP/RSTP/MSTP
	Support ERPS Ethernet ring network protection protocol
	Support Loopback-detection port loopback detection
port control	Support two-way bandwidth control
	Support port storm suppression
	Support 9K Jumbo ultra-long frame forwarding
Port aggregation	Support static link aggregation
	Support dynamic LACP
	Each aggregation group supports a maximum of 8 ports
Mirroring	Support port mirroring
	Support stream mirroring
ACL	Support standard and extended ACL
	Support ACL policy based on time period
	Provide flow classification and flow definition based on IP header information such as source/destination MAC address, VLAN, 802.1p, ToS, DSCP, source/destination IP address, L4 port number, protocol type, etc.

QoS	Support flow rate limiting function based on custom business flow
	Supports mirroring and redirection functions based on custom business flows
	Support priority marking based on custom service flow, support 802.1P, DSCP priority Remark capability Support port-based priority scheduling function,
	support queue scheduling algorithms such as SP/WRR/SP+WRR
Safety	Support user hierarchical management and password protection
	Support IEEE 802.1X authentication/centralized MAC address authentication
	Support Radius&TACACS+ authentication
	Support MAC address learning number limit, support black hole MAC function
	Support SSH 2.0, providing a secure encrypted channel for user login
	Support SNMP v3 encrypted management
	Support port isolation, hardware isolation of packets between ports
	Support broadcast packet rate suppression
	Support IP Source Guard to automatically create IP+MAC+port+VLAN binding table, and support manual binding table items
	Support DHCP Option82 and PPPoE+
	Support ARP flood attack automatic suppression and ARP spoofing protection
	Support the prevention of various DOS attacks and virus attacks against the CPU on the control layer
Layer 3	Support ARP learning and aging
	Support for creating VLAN Layer 3 interfaces and configuring static IPv4/IPv6 addresses
	Support static route configuration
	Support RIP/OSPF protocol function
	Support VRRP protocol function
System management	Support Console/Telnet/SSH2.0 command line configuration
	Support WEB browser configuration management
	Support FTP, TFTP file upload and download management
	Support SNMP V1/V2/V3
	RMON support
	Support SNTP clock
	Support system work log
	Support LLDP Neighbor Discovery Protocol
	Support 802.3ah Ethernet OAM
	Support RFC 3164 Syslog function
	Support Ping and Traceroute

Environment temperature	Working Temperature：-10℃～55℃ Storge temperature：-40℃～70℃
environment humidity	Operating humidity：10%～95%（non-condensing） Storage humidity：10%～95%（non-condensing）
environment friendly	China RoHs,、EEE
Weight	6.5KG
fan	Hot-swappable, adjustable speed（3 个）
power	AC： 100～240V 47/63Hz; DC： 36V～75V;
Power consumption	90W
size	440*270*44mm

Purchasing Information

Product name	Product description
GP5810-08	8*XG(S)-PON/GPON port, 8*10GE/GE SFP + 2*100G QSFP28, Dual power pluggable